

SURVEY TECHNICIAN II

DISTINGUISHING FEATURES

The fundamental reason the Survey Technician II exists is to serve as a crew chief and lead a team of land survey personnel in field operations in the Inspection Services Division of the Planning Systems Department. This classification functions as a lead worker over Survey Technician I positions. Work is performed under the lead of a Survey Technician III and reports to the Land Survey Coordinator. This is the full journey level class within the Survey Technician series. Employees within this class are distinguished from the Survey Technician I by the performance of the full range of duties as assigned including moderately complex survey and field engineering work and by the greater independence with which an incumbent is expected to operate. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit. The Survey Technician II is distinguished from the Survey Technician III by the latter having responsibility for leading crews on significant land survey projects and overseeing land survey office operations.

ESSENTIAL FUNCTIONS

Acts as survey party chief; leads and participates in a variety of land survey operations such as boundary, topography, leveling, design, as-built, floor elevations and maintaining horizontal and vertical control networks utilizing a full range of survey equipment.

Instructs, guides and mentors crewmembers in the proper use of the equipment including total stations and prisms, levels and level rods, global positioning system, small hand tools and computers, and related equipment and the proper techniques of performing various land survey operations.

Conducts project research, secures equipment, uses safety techniques, performs the survey operation, handles the equipment, records data and performs other associated duties for the purpose of delivering a successful project.

Performs a variety of office duties including researching existing survey records and compiling data required for current survey projects; obtains drawings, aerial photographs, field notes and old maps from other departments for references; interprets engineering plans for construction property and boundary control.

Prepares and verifies mathematical calculations related to surveying and basic engineering; computes and adjusts angles, distances, bearings traverses and elevations; interprets and computes field data; evaluates for accuracy and completeness; maintains accurate survey and non-survey related records in the form of field notes, reports and sketches; maintains vertical and horizontal control notes in files, field book and computer.

Track and maintain survey supplies such as stakes and marking equipment; ensure safety devices are present and in use as appropriate.

Answers questions and provides information to the public concerning engineering activities.

May place traffic control devices; may direct traffic.

May stake for the construction of improvements.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

Geometry, algebra and trigonometry as it pertains to land surveying
City required safety procedures
Microsoft programs (Word and Exchange)
Various software for processing land survey results
Field survey methods and techniques
Survey instruments used in the measurement and location of lines, elevations, areas, angles, points, and contours of the earth's surface
Civil engineering and survey terminology

Ability to:

Comprehend drawings used by land surveyors or civil engineers
Drive city vehicle and see to its maintenance
Operate "Trimble" Global Positioning System equipment and measurement devices used by land surveyors
Work in a variety of weather conditions
Work alongside heavy equipment in traffic, on steep slopes, on uneven terrain and near open trenches and loose soil

Education & Experience

Any combination of three years experience with a land survey team or demonstrated specialized experience with high technology land survey equipment and or systems.

FLSA Status: Non-exempt

HR Ordinance Status: Classified